

## **SB26/SB2600**

### **Discreet Surveillance Domes**

### **Installation/ Operation Manual**

**C1402M-B (2/98)**

Pelco • 3500 Pelco Way, Clovis • CA 93612-5699 USA • [www.pelco.com](http://www.pelco.com)

In North America and Canada: Tel (800) 289-9100 or FAX (800) 289-9150

International Customers: Tel (1-559) 292-1981 or FAX (1-559) 348-1120

---

## CONTENTS

---

<b>Section</b>	<b>Page</b>
1.0 GENERAL .....	5
1.1 IMPORTANT SAFEGUARDS AND WARNINGS .....	5
2.0 DESCRIPTION .....	6
2.1 Models .....	7
3.0 INSTALLATION .....	8
3.1 CONDUCTOR AND CABLE REQUIREMENTS (ALL MODELS EXCEPT SB26) .....	8
3.2 WIRING INSTRUCTIONS .....	8
3.3 MOUNTING INSTRUCTIONS .....	13
3.3.1 Fixed Ceiling Mounting .....	13
3.3.2 Dropped Ceiling, Tile Replacement Mounting .....	14
3.3.3 Camera/Lens Installation .....	15
3.4 CONNECTOR ASSEMBLY .....	16
3.5 J-BOX INSTALLATION .....	17
3.6 ADJUSTMENTS .....	19
4.0 MAINTENANCE .....	20
5.0 EXPLODED ASSEMBLY DIAGRAMS .....	21
6.0 SPECIFICATIONS .....	29
7.0 WARRANTY AND RETURN INFORMATION .....	32

## LIST OF ILLUSTRATIONS

<b>Figure</b>		<b>Page</b>
1	SB2600 Wiring Diagram .....	9
2	SB2600-SL Wiring Diagram .....	10
3	SB2600SL-PP Wiring Diagram .....	11
4	SB2600-PP Wiring Diagram .....	12
5	Fixed Ceiling Mounting .....	13
6	Dropped Ceiling Mounting with Optional Mounting Kit .....	14
7	"T-Bar" Clip Installation .....	14
8	Attaching Camera/Lens to Tilt Table .....	15
9	Attaching Dome to Drive Unit .....	15
10	Connector Assembly .....	16
11	Attachment of J-Box to Back Box for Plenum Applications .....	18
12	Limit Stop Locations .....	19
13	SB26 Exploded Assembly Diagram .....	21
14	SB2600 Series Pan/Tilt Exploded Assembly Diagram .....	22
15	SB2600 Hardware Exploded Assembly Diagram .....	25
16	SB26 Fixed Series Exploded Assembly Diagram .....	27
17	SB2600 Dimension Drawing .....	30

## LIST OF TABLES

<b>Table</b>		<b>Page</b>
A	SB26 Exploded Assembly Parts List .....	21
B	SB2600 Series Pan/Tilt Exploded Assembly Parts List .....	23
C	SB2600 Hardware Exploded Assembly Parts List .....	26
D	SB26 Fixed Series Exploded Assembly Mechanical Parts List .....	28
E	SB26 Fixed Series Exploded Assembly Associated Hardware Parts List .....	28

## REVISION HISTORY

<b>Manual #</b>	<b>Date</b>	<b>Comments</b>
C1402M	9/94	Original Manual.
C1402M-A	9/95	Rev. A. Revised Section 4.4, Connector Assembly and updated item no. 30, 45 and 46 on the SB2600 Series mechanical parts list.
C1402M-B	8/96	Rev. B. Revised hardware configuration for SB2600 pan/tilt, changing spindle design. In addition, part No. changed on items No. 6 and 29 on the SB2600 Series mechanical parts list (Figure 15). Revised Sections 7.0 and 8.1, Mechanical Parts Lists, regarding dome part numbers. Revised Sections 7.0 and 8.1, Mechanical Parts Lists, regarding dome part numbers.
	10/97	Changed manual to new format.
	2/98	Revised Section 4.0, Maintenance. Changed manual pagination.

(This page intentionally left blank.)

---

## 1.0 GENERAL

---

### 1.1 IMPORTANT SAFEGUARDS AND WARNINGS



**CAUTION:** This device is designed to operate at 24 volts AC power. Input voltage must not exceed 28 volts or drop below 22 volts or else **DAMAGE TO THE MOTORS WILL OCCUR**. Should you need technical assistance, please call (800) 289-9100.

Prior to installation and use of this product, the following **WARNINGS** should be observed.

1. Installation and servicing should only be done by Qualified Service Personnel and conform to all Local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuitry.
5. The installation method and materials should be capable of supporting four times the weight of the enclosure, pan/tilt, camera and lens combination.

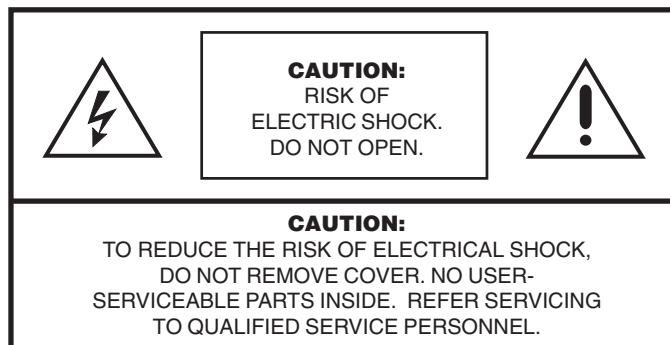
#### The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



**Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.**

---

## 2.0 DESCRIPTION

---

The SB26 is a discreet surveillance, low profile, hemisphere dome for CCD type cameras designed for ease of installation, relocation, and service in fixed ceilings or standard 2' x 2' (.61 m x .61 m) or 2' x 4' (.61 m x 1.22 m) false ceiling tiles. The black opaque lower dome effectively conceals the camera while providing an inconspicuous viewing window. The dome is attached to the drive to keep the viewing window and camera aligned.

To simplify installation even further, Pelco offers system packages with factory installed standard components from its regular product line. Options include a 24 VAC pan/tilt with factory pre-wired feedthrough for all control functions (i.e., pan/tilt, motorized zoom lens, camera power [24 VAC] and video), continuous 360° pan rotation, and a position feedback package for presets.

The dome and camera assembly rotate at a speed of 24 degrees/second and offer complete 360 degree surveillance coverage (SL series).

The back box is constructed of aluminum to meet fire code requirements for installation in open plenum ceilings.

## 2.1 MODELS

**NOTE:** All of the models are listed by Underwriters Laboratories Inc.

SB26	Drop ceiling discreet surveillance enclosure with black opaque lower dome with 1 f-stop light loss and all aluminum back box which mounts above the ceiling. (Camera mount supplied.) (UL)
SB26-1	Same as SB26 except supplied with clear viewing slot for virtually zero light loss. (UL)
SB26-2	Same as SB26 except supplied with mirrored lower dome with 2 f-stop light loss. (UL)
SB2600	This system package includes the SB26 black opaque dome enclosure plus a 24 VAC pan/tilt factory assembled inside the back box. It provides factory pre-wired feedthrough for all control functions (i.e., pan/tilt, motorized zoom lens, camera power [24 VAC] and video). All connections are made at the input connector, eliminating wiring harnesses made in the field. (CE, UL)
SB2600-PP	Same as the SB2600, except this package features the factory installed preset (PP) option. (CE, UL)
SB2600-SL	Same as the SB2600, except this package features 360° continuous pan rotation. (CE, UL)
SB2600SL-PP	Same as the SB2600-SL with the addition of the preset (PP) option. (CE, UL)
SB2601	Same as SB2600 except supplied with black opaque lower dome with clear viewing slot for virtually zero light loss. (CE, UL)
SB2601-PP	Same as SB2601 except with preset (PP) option. (CE, UL)
SB2601-SL	Same as SB2601 except supplied with 360° continuous pan rotation. (CE, UL)
SB2601SL-PP	Same as SB2601-SL except with preset (PP) option. (CE, UL)
SB2602	Same as SB2601 except supplied with mirrored lower dome, with 2 f-stop light loss.
SB2602-PP	Same as SB2602 except with preset (PP) option.
SB2602-SL	Same as SB2602 except supplied with 360° continuous pan rotation. (CE, UL)
SB2602SL-PP	Same as SB2602-SL except with preset (PP) option. (CE, UL)

---

## 3.0 INSTALLATION

---

Save the shipping box and any inserts in case the unit must be returned for credit or repair.

### 3.1 CONDUCTOR AND CABLE REQUIREMENTS (ALL MODELS EXCEPT SB26)

A minimum of 12 conductors plus coax is required, which includes common requirements for motorized zoom lens and camera AC power.

**NOTE:** The following are cable requirements. A relay box (RB24) is available to extend the operating distance up to 13,000 feet (3962.4 m) over 16 Awg wire.

#### Non-PP Models

	<u>12 Conductor</u>	<u>13 Conductor*</u>
20 Awg	130 ft (39.62 m)	185 ft (56.38 m)
18 Awg	205 ft (62.48 m)	290 ft (88.39 m)
16 Awg	326 ft (99.36 m)	461 ft (140.51 m)

#### Models with PP

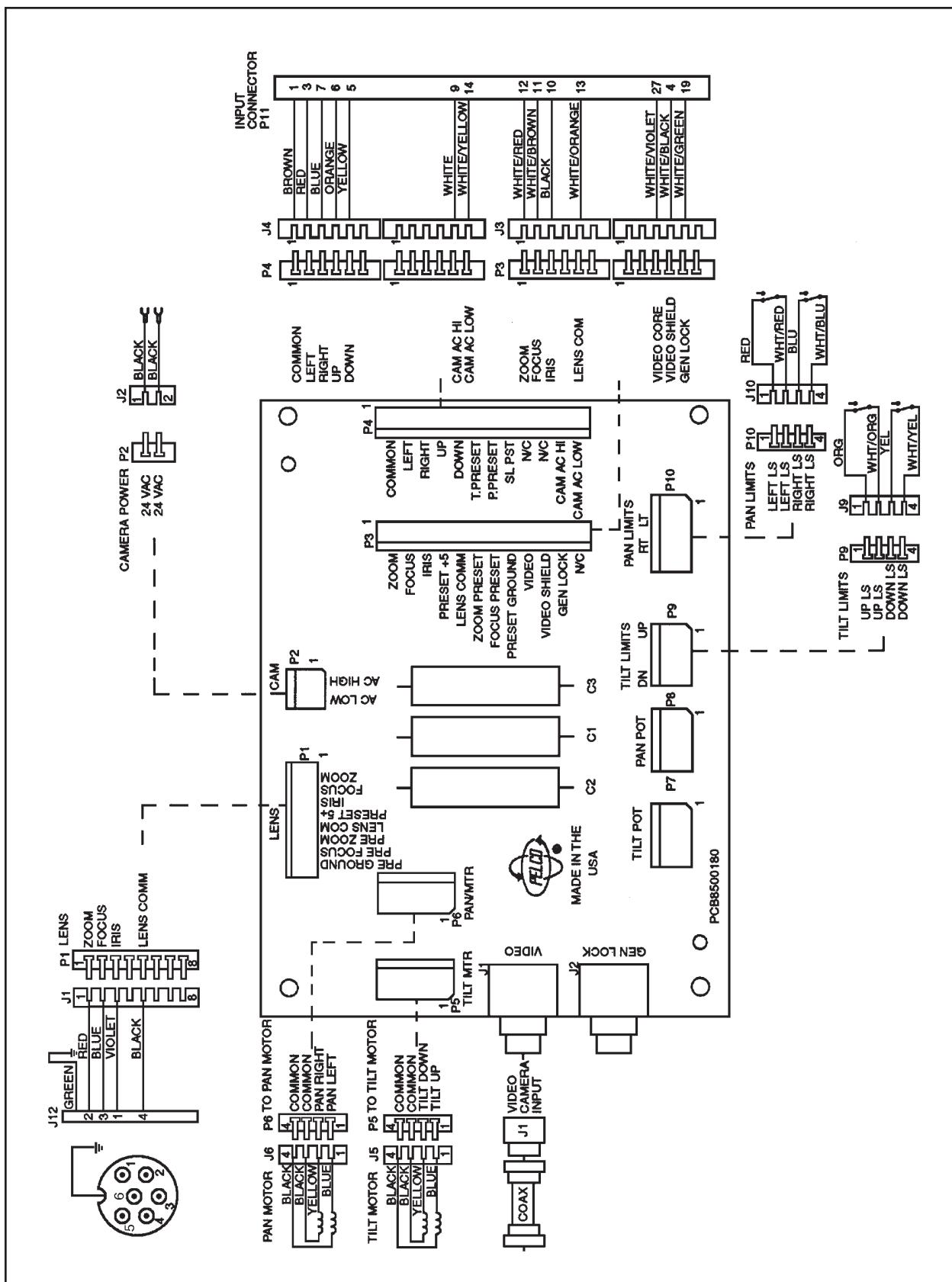
	<u>18 Conductor</u>	<u>19 Conductor*</u>
20 Awg	130 ft (39.62 m)	185 ft (56.38 m)
18 Awg	205 ft (62.48 m)	290 ft (88.39 m)
16 Awg	326 ft (99.36 m)	461 ft (140.51 m)

\*Using 2-conductor common.

Calculations are based on a 10% cable loss with both motors running.

### 3.2 WIRING INSTRUCTIONS

The SB2600 and SB2600-SL include a pan/tilt which is pre-wired for all control functions (pan/tilt, motorized zoom lens, camera power [24 VAC], and video). All connections are made to the input connector, eliminating the need for wiring harnesses made in the field. Wire the control cable according to the wiring diagram in Figures 1 and 2 (non-PP models), or Figures 3 and 4 (PP models).



**Figure 1.** SB2600 Wiring Diagram

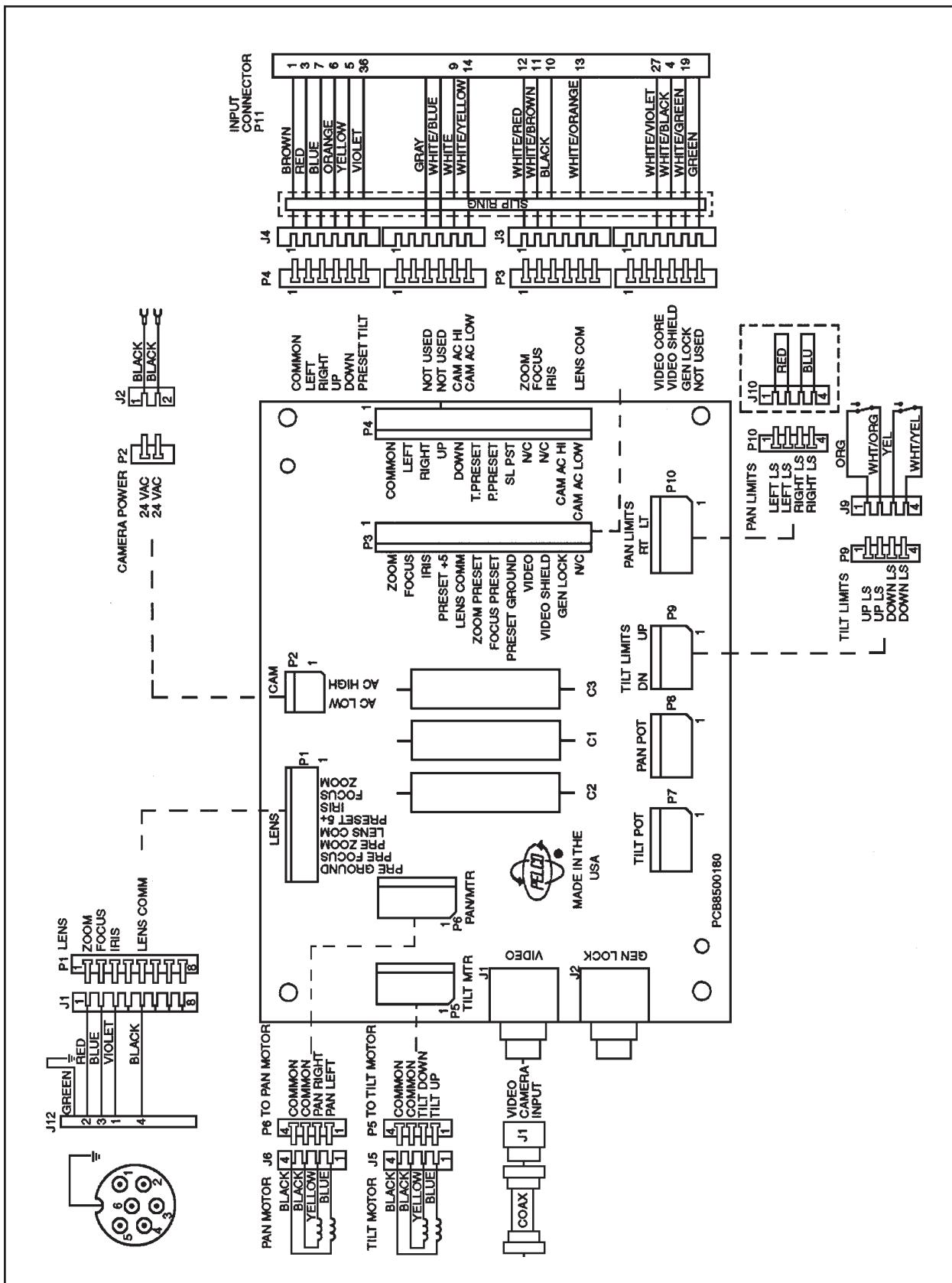
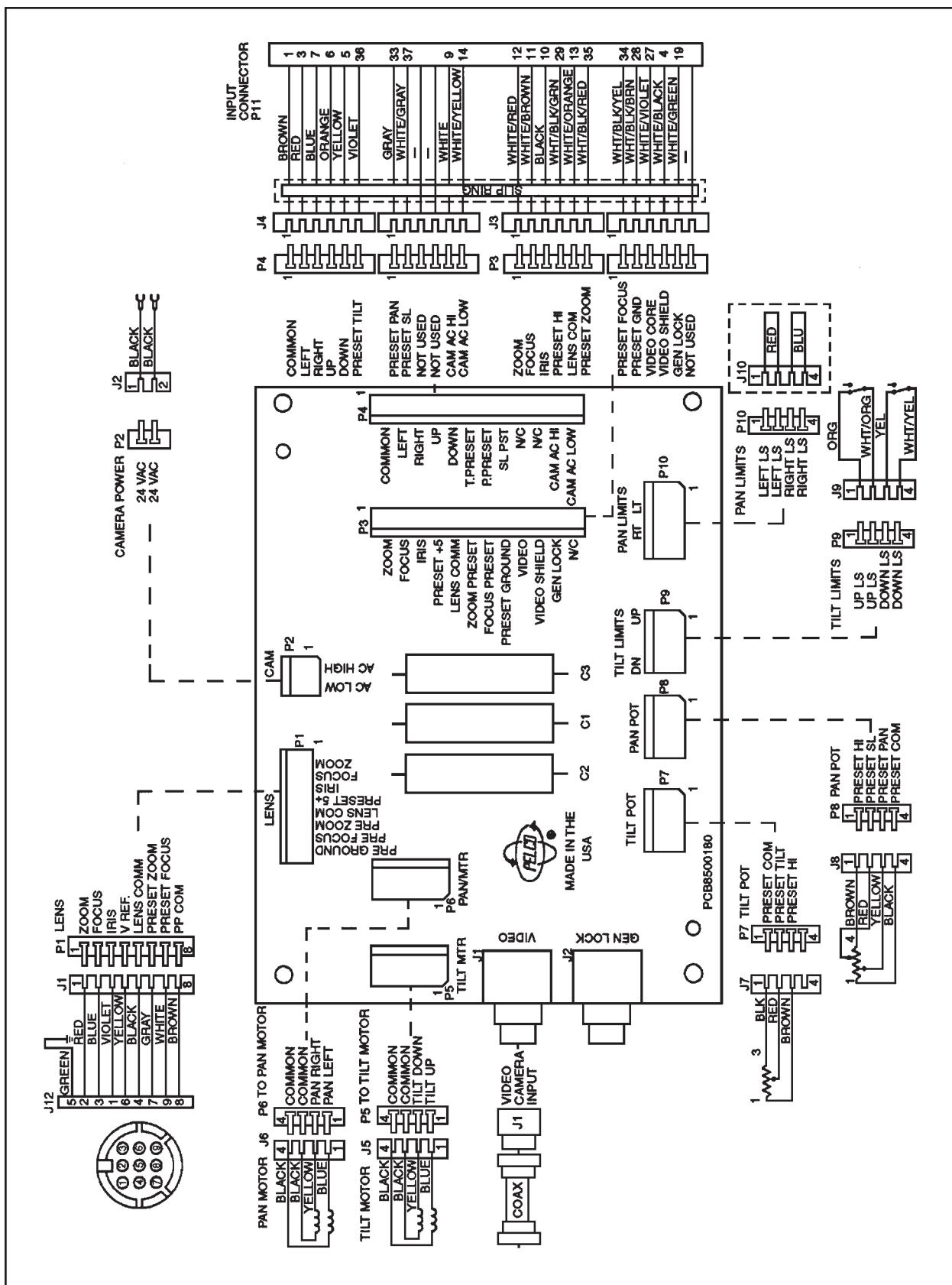
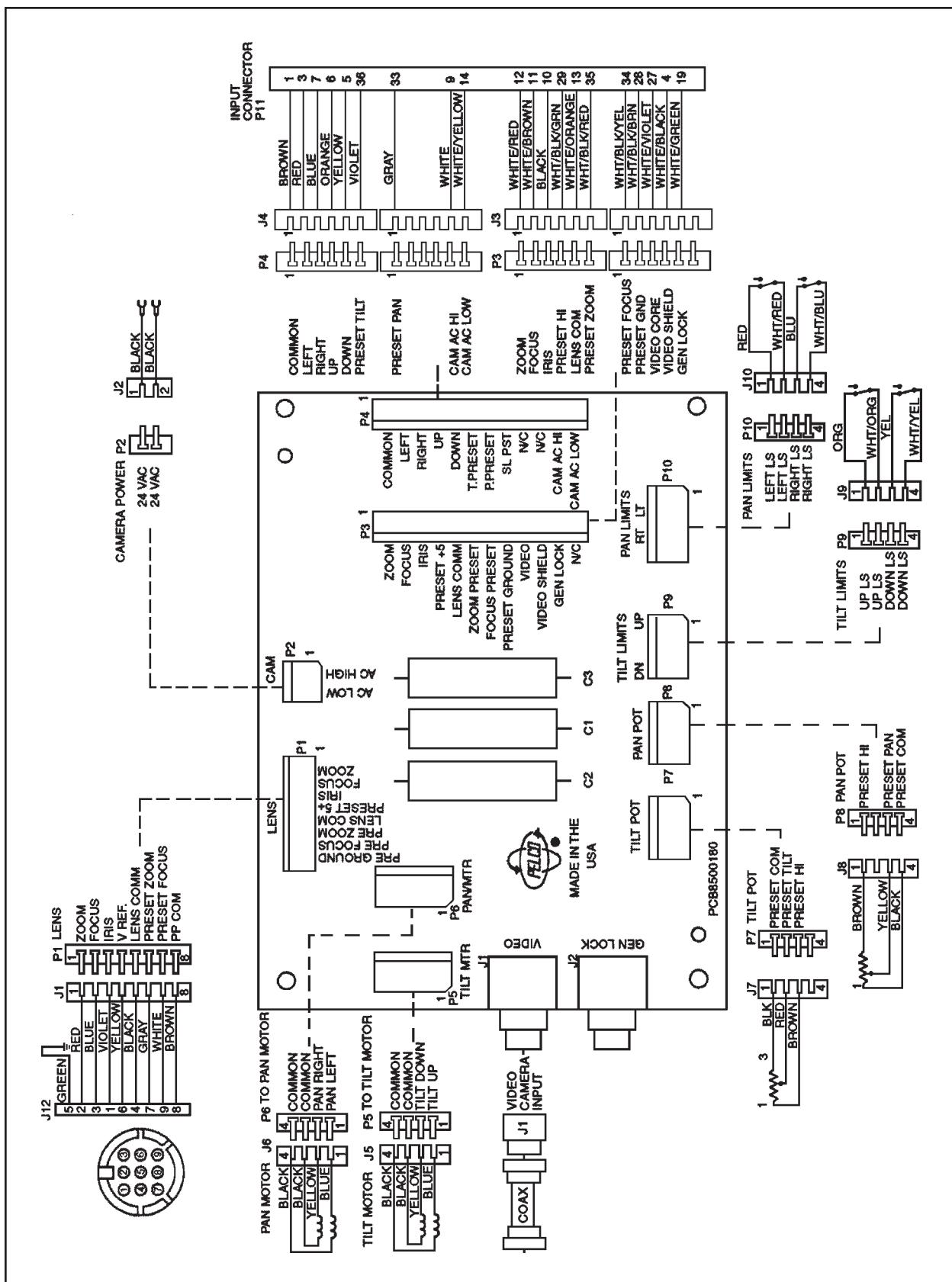


Figure 2. SB2600-SL Wiring Diagram



**Figure 3.** SB2600SL-PP Wiring Diagram



**Figure 4.** SB2600-PP Wiring Diagram

### 3.3 MOUNTING INSTRUCTIONS

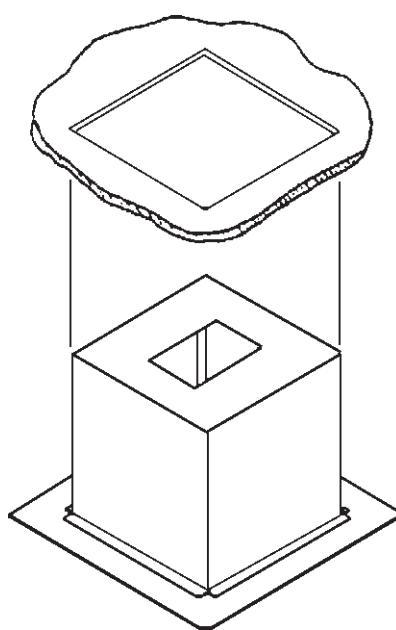
Handle the lower dome with care so as not to scratch or get fingerprints on the viewing window.

Determine the type of mounting desired. The enclosure can be mounted in a fixed ceiling, or completely replace a standard 2' x 2' (.61 m x .61 m) ceiling tile.

#### 3.3.1 Fixed Ceiling Mounting

To mount the enclosure directly into a fixed ceiling, perform the following steps (refer to Figure 5):

1. Determine the location and direction of the enclosure. Ideally, the enclosure cutout should be parallel and adjacent, or perpendicular, to any ceiling structure. Cut opening.
2. Remove the dome and drill holes into the side of the back box at the locations where the fasteners need to be located.
3. Insert the back box into the opening. Using the appropriate fasteners (not supplied), attach the back box to any adjacent structure through the drilled holes in the box.
4. Mount the camera/lens onto the pan/tilt assembly with the camera/lens centered on the tilt table. Use the mounting screw provided.
5. Hook up camera power, video, and lens with the connectors supplied.
6. Ensure there is sufficient initial clearance between the camera/lens and dome as you carefully attach dome to the drive unit as shown in Figure 9. Align the four ball studs on the dome to the four ball stud receivers on the dome drive and push the dome until a snapping sound occurs.
7. You are now ready to tilt the camera/lens up and down to check for clearance between the lens and the dome. If proper clearance is not achieved the dome will be dislodged from the dome drive. Also, pay attention to camera and wiring clearance up inside the drive.



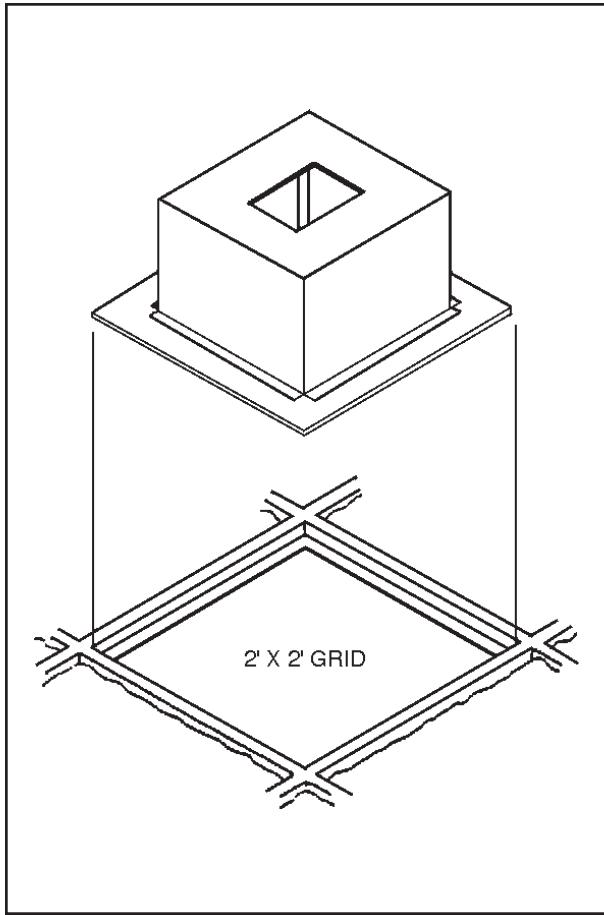
**Figure 5.** Fixed Ceiling Mounting

### 3.3.2 Dropped Ceiling, Tile Replacement Mounting

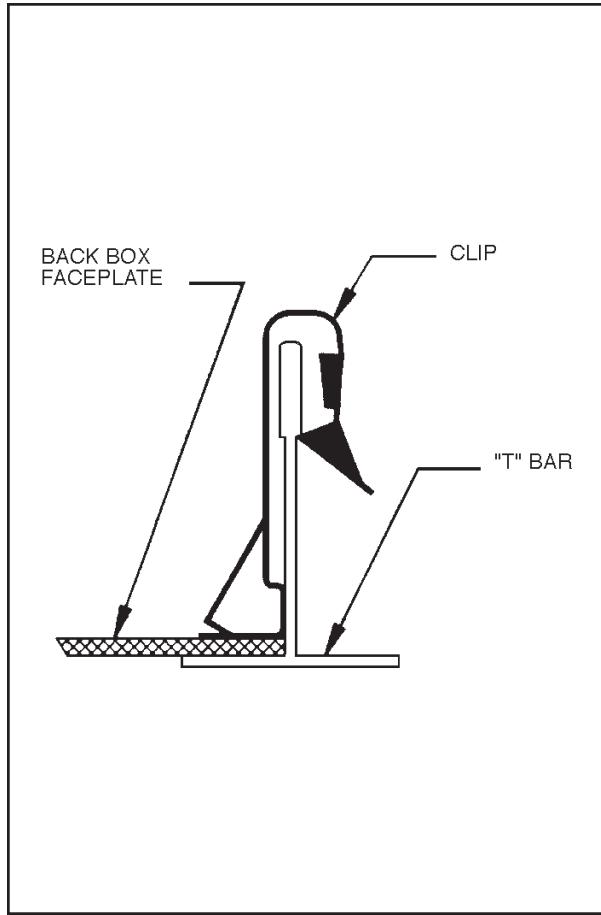
**IMPORTANT:** When installing the enclosure in a 2'x 4' (.61 m x 1.22 m) ceiling grid, cut the ceiling tile in half and install an additional "T" bar for support.

To mount the enclosure into a dropped ceiling grid, perform the following steps (refer to Figure 6):

1. Determine the location for mounting the enclosure and remove the appropriate ceiling tile.
2. Remove trim ring and dome. Angle the back box through the grid opening and set the box into the grid. If additional support of the back box is required, thread the two (2) 1/4-20 eye bolts (supplied) into the two attachment points in the top of the back box and hang the unit per local code.
3. From an opening in a grid adjacent to the back box, apply the four (4) clips supplied to the "T" bar for support (refer to Figure 7).
4. Mount the camera/lens onto the pan/tilt (fixed mount) assembly with the camera/lens centered on the tilt table. Use the mounting screw provided.
5. Hook up camera power, video, and lens with the connectors supplied.
6. Attach the safety chain to the lower dome and install the dome.
7. Operate the pan/tilt to verify that there are no obstructions within the back box or dome.



**Figure 6.** Dropped Ceiling Mounting with Optional Mounting Kit



**Figure 7.** "T-Bar" Clip Installation

### 3.3.3 Camera/Lens Installation

**NOTE:** Remove "shipping bracket" at this time. Refer to Figure 14, item 65.

**NOTE:** Fixed speed units must have power on and you must be able to activate the tilt functions. Do not rotate fixed speed dome caves by hand. Damage will occur to the motors.

Install the camera/lens that you have selected for use with the SB2600 Series dome as follows:

1. Loosen the 1/4-20 lens support fastener and slide lens support down (see Figure 8).
2. Place camera/lens atop the tilt table and thread the provided 1/4-20 x 1/2-inch fastener through the tilt table into the camera (see Figure 8). Snug the fastener at this time to allow for camera/lens repositioning.
3. Connect camera power spade lugs, coax video cable and lens connector, paying special attention to the routing of the cabling so as not to interfere with the camera/lens swing.
4. Ensure there is sufficient initial clearance between the camera/lens and dome as you carefully attach dome to drive unit as shown in Figure 9. Align the four ball stud receivers on the dome drive and push dome until snapping sound occurs. You are now ready to tilt the camera/lens combination up and down to check for clearance between the lens and the dome. If proper clearance is not achieved, the dome will be dislodged from the dome drive. Also pay attention to camera and wiring clearance up inside the drive.
5. Adjust camera/lens and wire routing as necessary to achieve proper clearances. Always keep in mind that if the camera/lens can be balanced the unit life will be extended.
6. After satisfactory clearances have been achieved, remove dome and tighten all three camera/lens fasteners. The unit is now ready for operations test and, if applicable, pan limit stop adjustments.

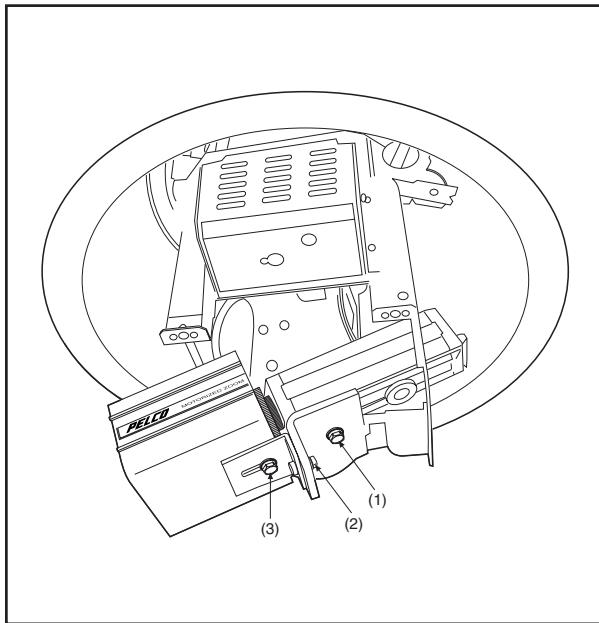


Figure 8. Attaching Camera/Lens to Tilt Table

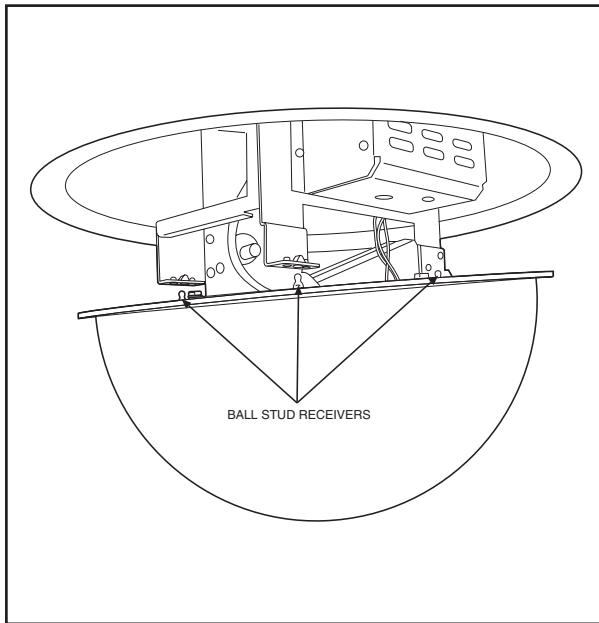


Figure 9. Attaching Dome to Drive Unit

### 3.4 CONNECTOR ASSEMBLY

Assemble the connector parts according to the instructions below. Detail B, below, reflects the pin arrangement specific to all SB26/SB2600 Series. Refer to Figure 10 during assembly. For best results use an AMP style crimper when making the wire to pin connection.

The instructions that follow apply to all AMP style connectors regardless of pin size or pin number.

1. Slide the connector clamp assembly over the conductor cable. If the diameter of the conductor cable is such that the rubber boot will slide over it easily then slide the rubber boot onto the conductor cable at this time. If not, discard the rubber boot.
2. Prepare the wires from the conductor cable as follows:
  - a. Strip at least 1" from the cable jacket to expose the wires. You may need to strip more from the cable jacket if you have more wires.
  - b. Strip 1/8" from each wire.
  - c. Using an AMP style crimper, crimp the wires and their insulation to the connector pins. Refer to Detail A in Figure 10.
3. Slide the connector pins into the appropriate holes in the connector body until they snap into place. Refer to Figure 10 for correct pin arrangement, depending on model and options.
4. Push the connector clamp assembly (with boot, if used) toward the connector body. Screw the clamp assembly onto the connector body, being careful not to disturb the wires.
5. To complete the assembly, attach the appropriate clamp with the screws provided and tighten.

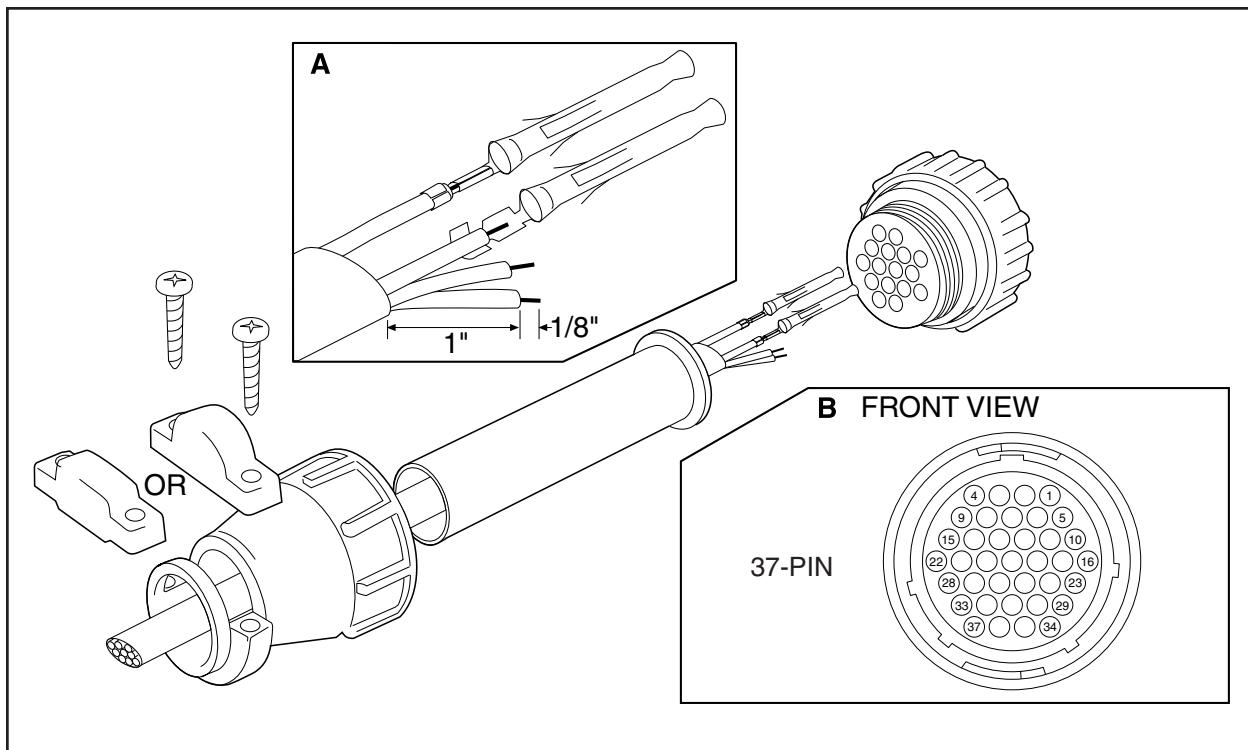


Figure 10. Connector Assembly

### 3.5 J-BOX INSTALLATION

For installations requiring full plenum rating, perform the following step:

#### **Installations Requiring Conduit**

When conduit must be run to the enclosure back box:

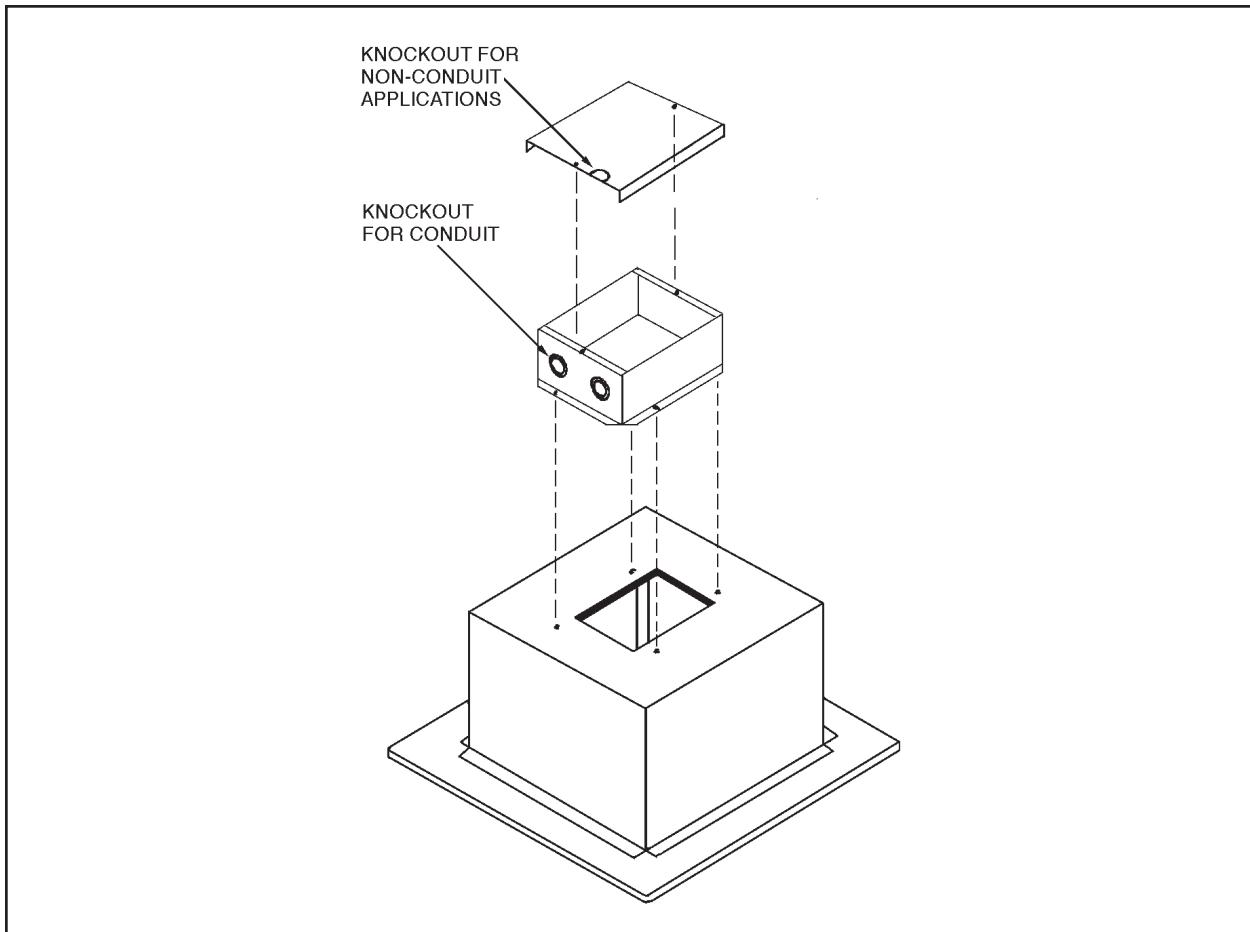
1. Attach the provided J-box to the top of the enclosure back box as shown in Figure 11 using the supplied 6-32 screws.
2. Remove one of the knockouts from the J-box and attach the conduit to the J-box (hardware not supplied).
3. Run the cabling through to the conduit.
4. Assemble the connector onto the end of the cable that is in the J-box, per Section 3.4.
5. Place the J-box cover onto the J-box with two (2) 6-32 screws (supplied).

**or**

#### **Installations Not Requiring Conduit**

When conduit is not required at the enclosure back box:

1. Attach the provided J-box to the top of the enclosure back box as shown in Figure 11 using the supplied 6-32 screws.
2. Remove the knockout from the edge of the J-box cover.
3. Run the assembled cable (see Section 3.4) into the J-box and place the cover onto the J-box with the cable going through the knockout section of the cover. Attach with 6-32 screws (supplied).



**Figure 11.** Attachment of J-Box to Back Box for Plenum Applications

### 3.6 ADJUSTMENTS



**CAUTION:** Do not attempt to adjust limit stops when the pan/tilt is in operation. Damage to the equipment can result. **Do not operate pan/tilt without limit stops.**

**Do not remove or reposition fixed limit stop. DAMAGE WILL OC-CUR.**

*Note the SL models are supplied without pan limit stops, therefore, no adjustments are necessary.*

To adjust the pan limits, perform the following steps. Refer to Figure 12 for limit stop locations. Factory pan limits are set at 0-355°, tilt limits are set at 0-90° (horizontal to vertical).

To adjust limit stops, perform the following steps:

1. Pan unit to the desired left or right position; adjust the appropriate limit stop position. If necessary, disconnect drive from back box to make required adjustments.
2. Replace drive in back box. Again, pan unit to left and right limit stop positions. If position of stops is incorrect, repeat the procedure in step 1.
3. Pan to the right and left to verify the exact positioning and tighten both stops securely.
4. The tilt limit is designed to allow for 0-90° travel (horizontal to vertical).

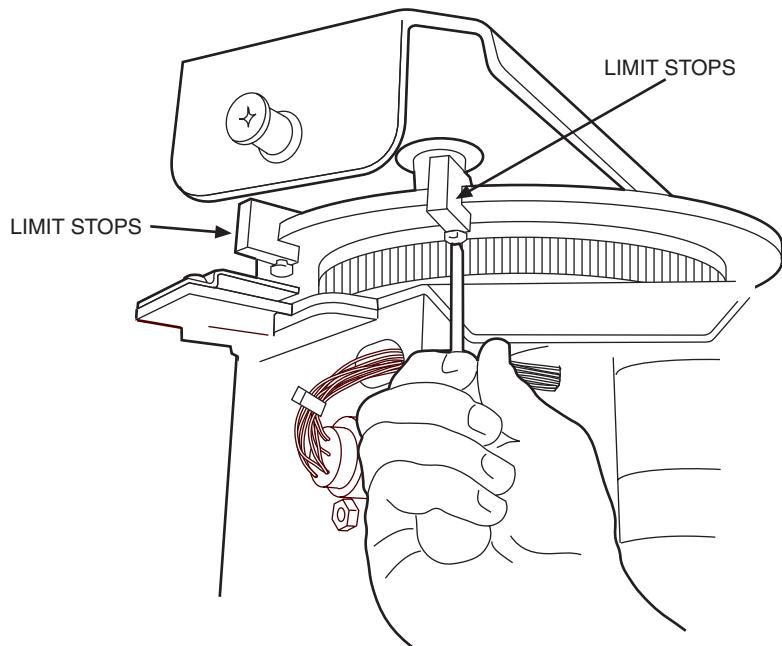


Figure 12. Limit Stop Locations

---

## 4.0 MAINTENANCE

---

Clean the acrylic dome as necessary to maintain a clear picture. Be careful not to scratch the surfaces of the dome.

**Exterior Surface** - Clean the dome's exterior surface with a nonabrasive cleaning cloth and cleaning agent that is safe for acrylic plastic. Either liquid or spray cleaner/wax suitable for fine furniture is acceptable.

**Interior Surface (Except Chrome)** - Clean the same as the exterior surface.

**Interior Surface (Chrome)** - The inside surface of a chrome dome is easily scratched. Use the following precautions to maintain the dome's surface.

- a. Always handle the dome from the outside of its circular flange.
- b. Never touch the coated inside surface. The acid in your fingerprints will eventually etch the coating if the fingerprints are not carefully removed according to the recommended cleaning procedure in item "e."
- c. If dust or other contaminants accumulate on the dome's interior, remove the debris with compressed air. Compressed air cans are available from photographic equipment or electronic supply dealers.
- d. If heavy residue accumulates and cannot be removed with air pressure, rinse with water and immediately dry with air pressure so that water spots will not remain. Avoid wiping the coated surface with direct hand pressure - it will easily abrade unless extreme care is taken. Once scratched, the dome cannot be recoated.
- e. If internal wiping is necessary, avoid hand rubbing. Instead, make a wick as follows:

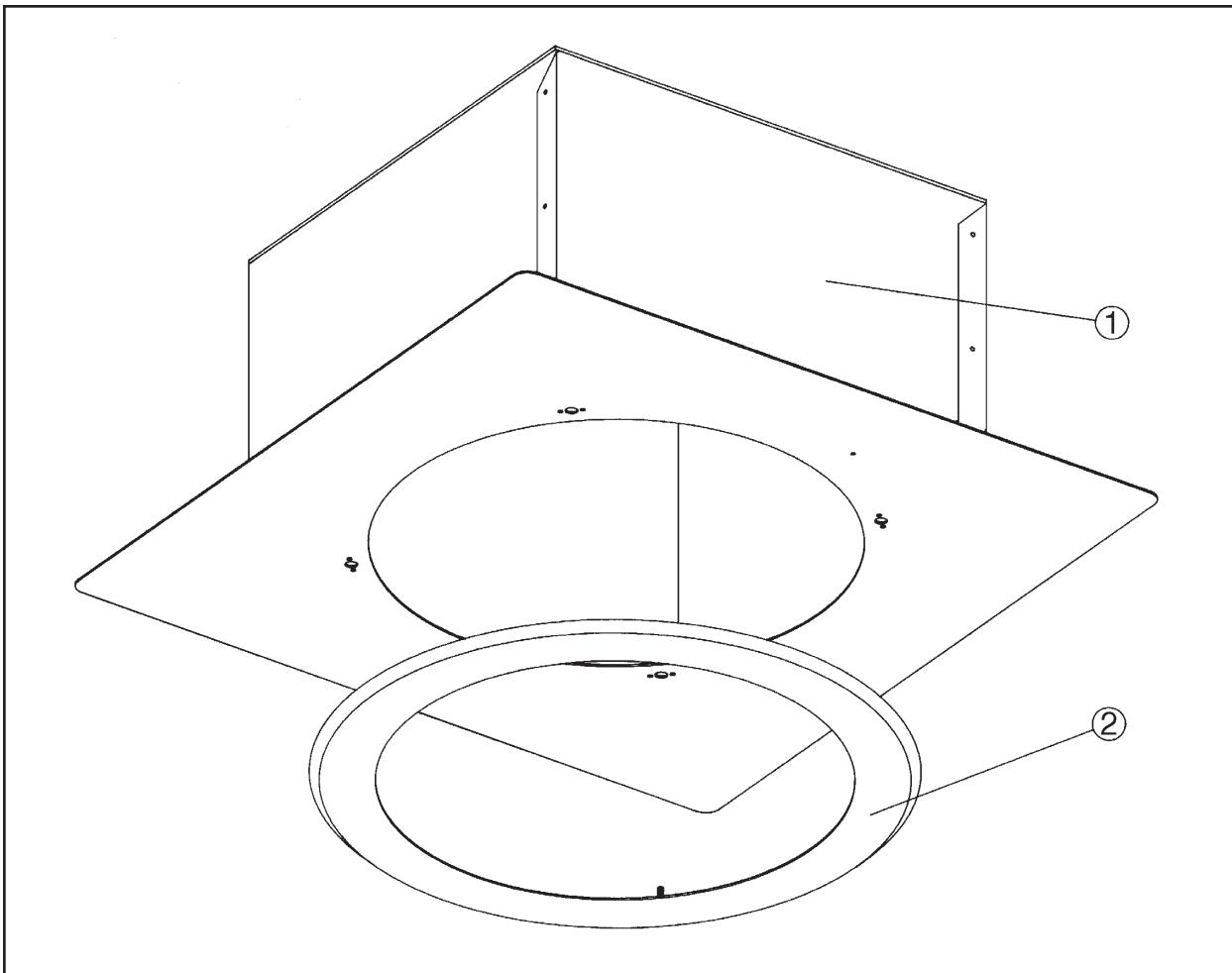
Use a very soft paper towel. Roll a section into a tightly wound tube. Tear the tube in half, and wet the fuzzy end of the wick with a solution of isopropyl alcohol diluted with water. Hold the dome with its opening facing downward and wipe the interior of the dome with the wet end of the wick. Use a circular motion, starting from the outside and spiraling into the center. Use a new wick for each two passes over the dome.

---

## 5.0 EXPLODED ASSEMBLY DIAGRAMS

---

Refer to Figure 13 for an exploded assembly diagram of the SB26 Enclosure, Figures 14 and 15 for the SB2600 Series Pan/Tilt, and Figure 16 for the SB26 fixed mount.



**Figure 13.** SB26 Exploded Assembly Diagram

**Table A.** SB26 Exploded Assembly Parts List

Item No	Quantity	Description	Part Number
1	1	Back box	25001010WASSY
2	1	Trim ring	SB262ASSY

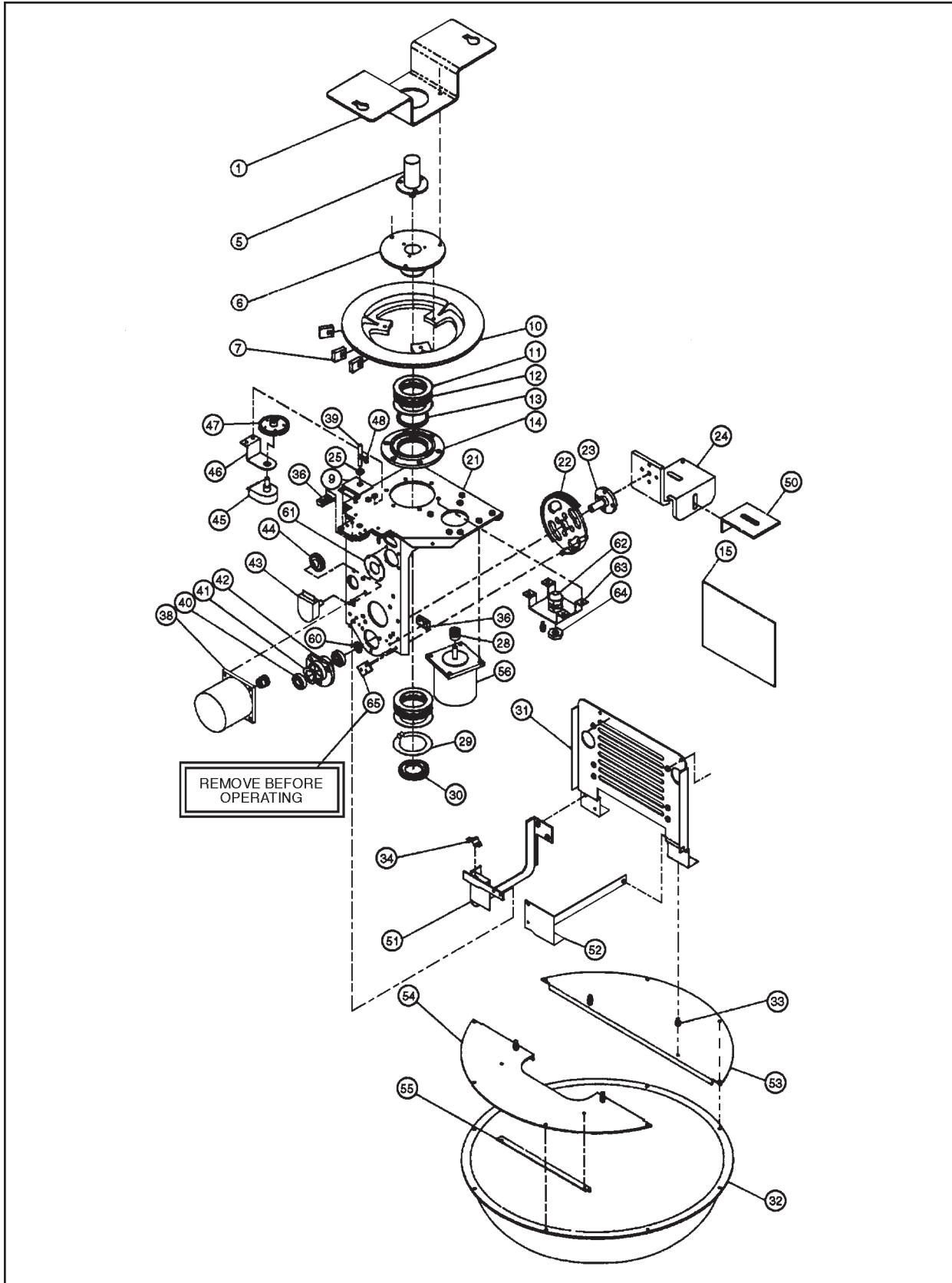


Figure 14. SB2600 Series Pan/Tilt Exploded Assembly Diagram

**Table B.** SB2600 Series Pan/Tilt Exploded Assembly Parts List

Item No.	Quantity	Description	Part Number
1	1	Bracket, drive mount	25004103COMP
2-4	-	Not Used	
5	1	Slip ring lead	28010000
		Slip ring lead, preset (PP) models only	250010000
6	1	Spindle	8004024COMP
7	3	Stop, pan limit	80010050
(Not shown)	2	Connector CPC, 37 pos pin plug	CON206305-1
(Not shown)	2	Connector CPC cable clamp, size 23	CON206138-1
(Not shown)	2	Connector boot	CON9779-513-8
8	-	Not Used	
9	1	Bracket, pan limit	8004013COMP
10	1	Gear, pan	80010012
11A, 11B	3, 1	Washer, thrust .030", Washer thrust .060"	90010002, 90010024
12	2	Bearing, thrust	90010001
13	1	Bearing, bronze, 1.5" ID x .125 thick	90010029
14	1	Boss, pan bearing	800400COMP
15	1	Backplane	PCB8500180ASSY
16-20	-	Not Used	
21	1	Frame, dome drive	8141000WA
22	1	Gear, tilt	80010013
23	1	Shaft, tilt	8004018COMP
24	1	Table, tilt	8144005COMP
25	1	Grommet, neoprene	GRO2172N
26, 27	-	Not Used	
28	2	Gear, motor	80010101
29	1	Snap ring, 1.5" dia (not shown)	80010019
30	1	Gear, preset, pan spindle	8104006COMP
31	1	Bracket, dome	8144001COMP
32	1	Dome, 14" acrylic:	
		Black opaque w/smoked viewing window	81410001-0*
		Black opaque w/clear viewing window	81410001-1*
		Chrome finish f/2	81410001-2*
33	4	Ball stud	PT180410000
34	4	Receiver, ball stud	PT180410001
35	2	Actuator, switch (tilt)	SWIJS138B
36	4	Switch, micro	SWIISM1
	2	Switch, micro (SL)	SWIISM1
37	2	Actuator, switch	SWIJS221
38	1	Motor, tilt:	
		24 VAC, 14 rpm, w/gearhead type 2 drive	8008214
39	1	Pin, pan limit	8004011COMP
40	2	Bearing, sealed .375" ID, .875" OD	80010000
41	1	Spring, wave	80010002
42	1	Boss, bearing, tilt	8004000COMP
43	1	Preset tilt pot	POTP010.OK
44	1	Gear, preset tilt	280110017
45	1	Preset pan pot	POTP010.OK

\* Part number is for the dome only. To order a complete dome assembly, specify the part numbers 8144100COMP (smoked), 8144101COMP (clear), and 8144102COMP (chrome). These part numbers include items 32, 33, 53, 54, and 55.

Continued on next page

Table B SB2600 Series Pan/Tilt Exploded Assembly Parts List (continued)

Item No.	Quantity	Description	Part Number
46	1	Bracket, pan preset potentiometer	8104012COMP
47	1	Gear, pan preset potentiometer	90010020
48	2	Ring, snap	15510000
50	1	Support, lens	8144006COMP
51	1	Bracket, rear, dome	8144009COMP
52	1	Bracket, front, dome	8144007COMP
53	1	Plate, dome (receiver side)	8144002COMP
54	1	Plate, dome (tilt side)	8144003COMP
55	1	Bracket, tilt side, dome	8144004COMP
56	1	Motor, pan: 24 VAC, 48 rpm, w/gearhead, type 2 drive	8008248
57	1	Connector, mating, lens: 9-pin, PP lens (not shown)	1751000COMP
		6-pin, non-PP lens (not shown)	CONMAS6100
58	1	Connector, lens, panel mount: 9-pin, PP lens (not shown)	CON206705-1
		6-pin, non-PP lens (not shown)	CONMAB6100
59	9	Pins, loose piece (not shown) (for use with item #58, CON206705-1)	CON66399-1
60	1	Shim	ZHSHIM.047
61	1	Adapter, connector	30014025COMP
62	1	Gland, UL approved	EH400010003
63	1	Mount, spindle strain relief	6804001COMP
64	1	Nut, UL approved	EH400010004
65	1	Bracket, shipping stabilizer*	8144012COMP
		<i>(*Remove Before Operating)</i>	

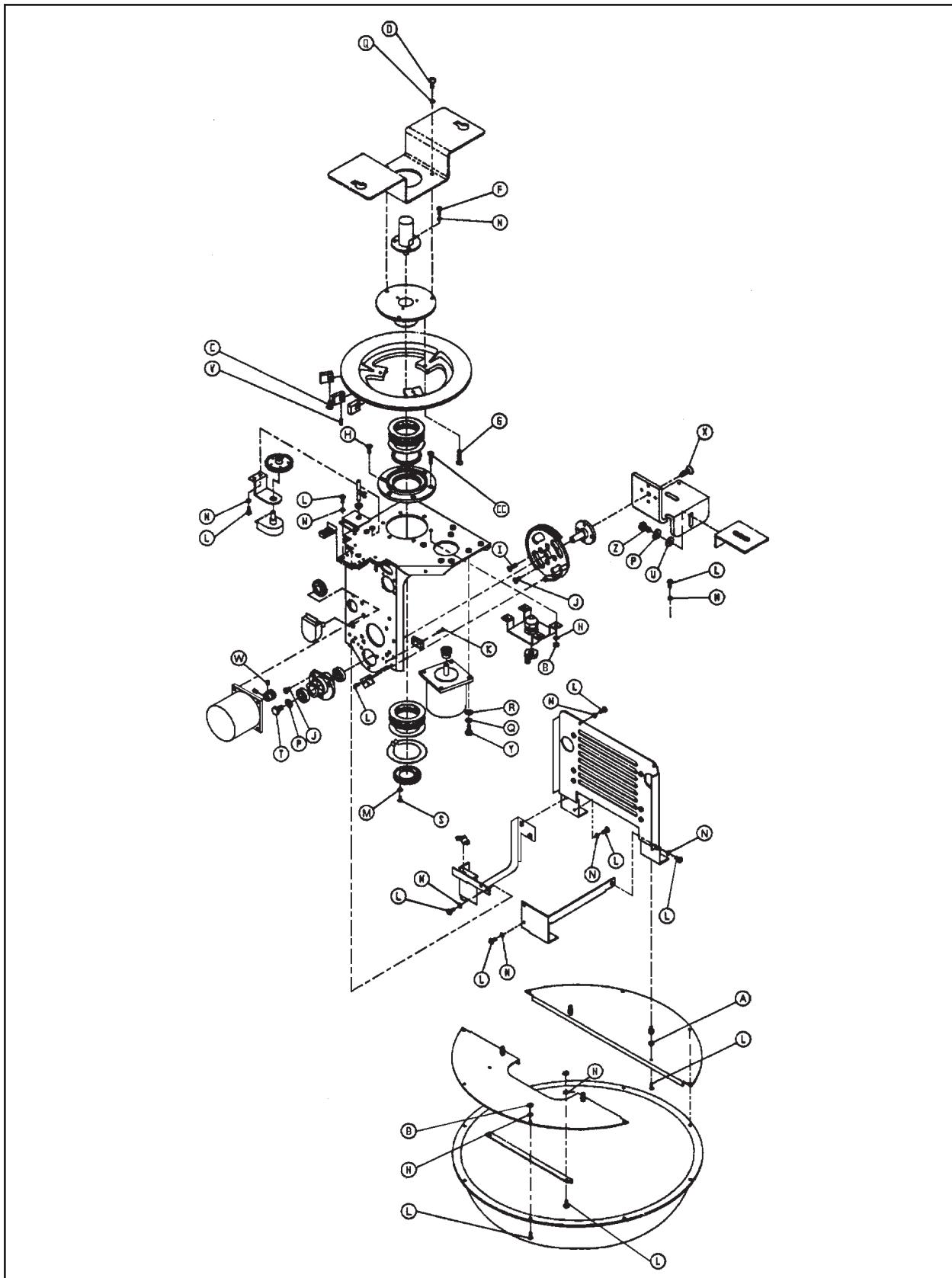


Figure 15. SB2600 Hardware Exploded Assembly Diagram

**Table C.** SB2600 Hardware Exploded Assembly Parts List

Item No.	Quantity	Description	Part Number
A	4	Spacer, 1/4" O.D. x 1/8" L, #6 clear	SPA8500
B	10	Nut, hex 6-32 SS	ZH6-32NUTSH
C	2	Screw, 8-32 x 3/8", hex hd, m/s, SS	ZH8-32X.375HMSS
D	2	Spacer 1/4" hex x 1/2. L, 6-32 tapped	SPA8423
E	-	Not Used	-
F	3	Screw, 6-32 x 3/8" pan hd, phil, SS	ZH6-32X.375SPP
G	3	Screw, 8-32 x 3/4" L flat hd, phil, SS	ZH8-32X.750SFS
H	6	Screw, 6-32 x 3/8" flat hd, phil, SS	ZH6-32X.375SFP
I	2	Screw, 8-32 x 1/2" flat hd, phil, SS	ZH8-32X.500SFS
J	5	Screw, 8-32 x 3/8" flat hd, phil, SS	ZH8-32X.375SFP
K	8	Screw, 2-56 x 7/16" flat hd, phil, SS	ZH2-56X.437SPP
	4	Screw, 2-56 x 7/16" flat hd, phil, SS (SL models only)	ZH2-56X.437SPP
L	40	Screw, 6-32 x 3/8" pan hd, phil, black oxide	ZH6-32X.375BPP
M	3	Washer, internal star #4, SS	ZH4LWSIS
N	36	Washer, internal star #6, SS	ZH6LWSIS
O	3	Screw, 8-32 x 1/2" pan hd, phil, SS	ZH8-32X.500SPP
P	2	Washer, split lock, 1/4", SS	ZH1/4LWSSL
Q	8	Washer, internal star #8, SS	ZH8LWSIS
R	8	Washer, flat #8, SS	ZH188X435X60C
S	3	Screw, 4-40 x 1/4" pan hd, phil, SS	ZH4-40X.250SPP
T	1	Screw, 1/4-20 x 1/2", hex hd, SS	ZH1/4-20X.500CH
U	1	Washer, flat 3/16" spcl size ptd	ZH260X562X65C
V	1	Set screw, 8-32 x 1/4" knur, hex soc, blk	ZH8-32X.250S
W	4	Set screw, 8-32 x 3/16" knur, hex soc, blk	ZH8-32X.187S
X	1	Screw, 10-32 x 1/2" flat hd, phil, ss	ZH10-32X.500CFS
Y	8	Screw, 8-32 x 1/2" hex soc, C/S, SS	ZH8-32X.500CS
Z	1	Screw, 1/4-20 x 3/4" hex hd, C/S, SS	ZH1/420X361X62N
AA	4	Washer, nylon	ZH131X361X62N

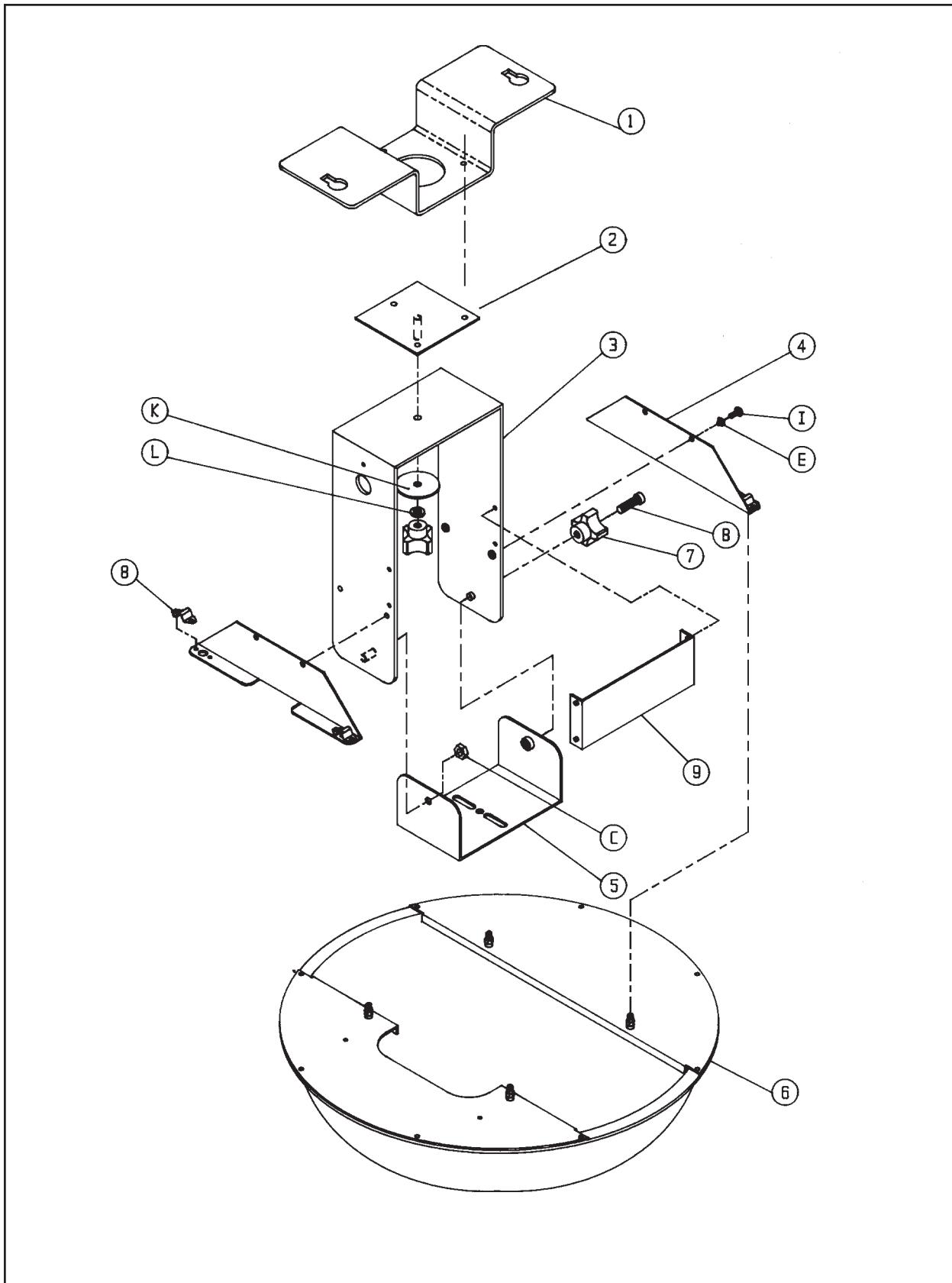


Figure 16. SB26 Fixed Series Exploded Assembly Diagram

**Table D.** SB26 Fixed Series Exploded Assembly Mechanical Parts List

Item No.	Quantity	Description	Part Number
1	1	Bracket, drive mount, upper	25004103COMP
2	1	Adapter bracket, spindle, fixed mount	8004137COMP
3	1	Frame 14", fixed mount	8004019COMP
4	2	Bracket, dome, 14" fixed mount	8004020COMP
5	1	Tilt table, fixed mount	8004021COMP
6	1	Dome, 14", acrylic: Black opaque w/smoked viewing window Black opaque w/clear viewing window Chrome finish f/2 Gold finish f/2	81410001-0* 81410001-1* 81410001-2* 81410001-3*
7	2	Knob, grey, 1/4-20 tapped	CM1610003
8	4	Receiver, ball stud	PT180410001
9	1	Cross bar, 14" fixed mount	8008043COMP

\* Part number is for the dome only. To order a complete dome assembly, specify the part numbers 8144100COMP (smoked), 8144101COMP (clear), 8144102 (chrome) and 8144103 (gold). These part numbers include items 32, 33, 53, 54, and 55 shown separately in Figure 14.

**Table E.** SB26 Fixed Series Exploded Assembly Associated Hardware Parts List

Item No.	Quantity	Description	Part Number
A	-	Not Used	-
B	1	Screw 1/4-20 x 1" soc hd c/s, SS	ZH1/420X1.00SS
C	1	Nut, lock, hex, 1/4-20, nylon insert, SS	ZH1/420NUTCHN
D	4	Screw 6-32 x 3/8" pan hd phil, SS	ZH6-32X.375SPP
E	17	Washer, internal star #6, SS	ZH6LWSIS
F	-	Not Used	-
G	4	Screw 8-32 x 1/2" pan hd phil, SS	ZH8-32X.375SPP
H	4	Washer, internal star #8, SS	ZH8LWSIS
I	14	Screw 6-32 x 3/8" flat hd phil, black oxide	ZH6-32X.375BPF
J	-	Not Used	-
K	1	Washer, fender, 1/4 x 1.5 x 14 ga, black oxide	ZH255X1.50X62
L	1	Washer, split lock, 1/4" SS	ZH1/4LWSSL
M	13	Nut, hex, 6-32, SS	ZH6-32NUTSH
N	4	Spacer 1/4" O.D. x 1/8" L, #6 clear	SPA8500

---

## 6.0 SPECIFICATIONS

---

### **MECHANICAL**

Construction	
Pan/tilt:	Aluminum
Back box:	Aluminum
Lower dome:	Acrylic hemisphere with distortion free viewing window; rotates with the pan/tilt/camera/lens.
Max. Camera/Lens	
Length:	(Including BNC connector): 12.5"H x 4.5"W x 3.25"H (31.75 cm x 11.43 cm x 8.25 cm)
Pan:	0-355° movement in horizontal plane (Models SB2600, SB2600-PP) 360° continuous rotation (Models SB2600-SL, SB2600SL-PP)
Pan Speed:	24°/sec ±1° (no load condition)
Tilt:	-90° movement from horizontal plane
Tilt Speed:	12°/sec ±.5° (no load condition)
Maximum Load:	10 lbs (4.6 kg)
Gearing:	Spur gear, direct drive (pan and tilt)
Bearings	
Pan:	Heavy duty ball bearing and Oilite bronze bushing
Tilt:	Oilite bronze bushing
Duty Cycle:	50% duty cycle; 30 minute rating
Braking:	Friction

### **ELECTRICAL**

Input Voltage:	24 VAC required for pan/tilt
Power Requirements	
Pan:	.30 amp
Tilt:	.38 amp
Connectors	
Pan/Tilt:	Amp CPC type (mate supplied) installed onto a pigtail exiting from the rear of the back box. All functions (camera power, lens, pan/tilt and video).
Lens:	Hirschmann MAB6100 (mate supplied) for non-PP models
Video:	AMP CPC type (mate supplied) for PP models
Camera Power:	Spade lugs, 24 VAC
Motors:	Two-phase induction type, continuous duty, instantaneous reversing
Limit Switches	
Pan:	5 amp, on non-SL
Tilt:	5 amp
Conductor Requirements:	As listed, plus coax cable Non-PP models Pan/tilt (5 plus ground), Lens (4), Camera AC (2) PP models Pan/tilt (9 plus ground), Lens (4), Camera AC (2)

## **GENERAL**

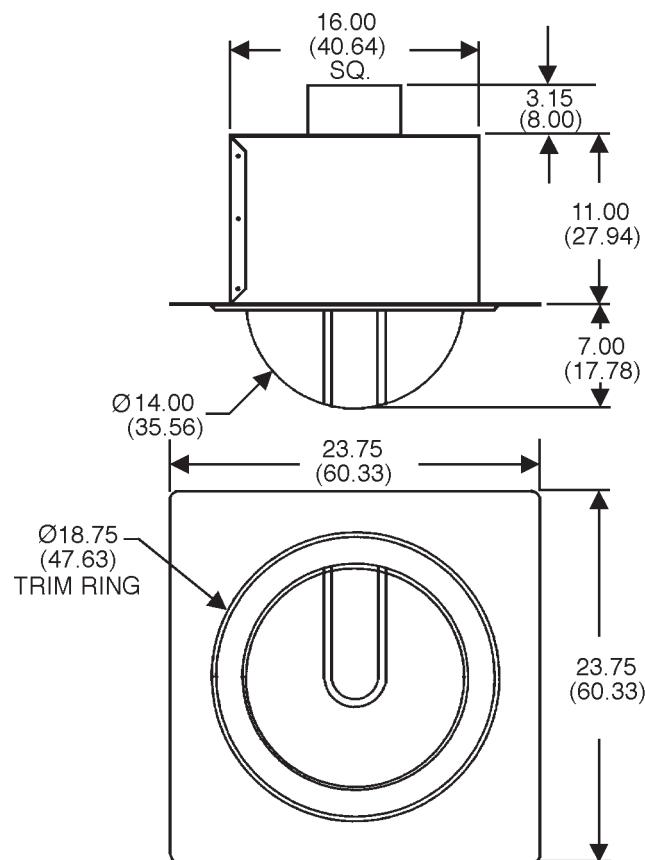
Environment: Indoor

Temperature Range: 14° to 122° F (-10° to 50° C)

Dimensions: See Figure 17

Rating: NEMA 1

*(Design and product specifications subject to change without notice.)*



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS;  
ALL OTHERS ARE INCHES

**Figure 17. SB2600 Dimension Drawing**

---

---

**NOTES**

---

---

---

## 7.0 WARRANTY AND RETURN INFORMATION

---

### **WARRANTY**

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned. Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

### **RETURNS**

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge. Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department  
Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors  
473 Eccles Avenue  
South San Francisco, CA 94080 USA  
Phone: 650-737-1700  
Fax: 650-737-0933

Pelco, the Pelco logo, Camclosure, Esprit, Genex, Legacy, and Spectra are registered trademarks of Pelco.

Endura and ExSite are trademarks of Pelco.

© Copyright 1998, Pelco. All rights reserved.